

Table D-3**Entrance Exposure Rate (EER) Measurements**

Representative EER Values for Various Equipment Types

Procedure	Dose Rate Setting	Image Intensifier Mode (Diameter)	kVp	mA	EER (Output)
Conventional fluoro + ABC tracking from 80 kVp ¹	Med. Detail	Normal (30.5 cm)	81	0.6	1.150 R min ⁻¹
		Mag 1 (22.9 cm)	81	1.2	2.255 R min ⁻¹
		Mag 2 (15.2 cm)	81	2.4	4.485 R min ⁻¹
		Mag 3 (11.4 cm)	84	3.6	6.840 R min ⁻¹
Digital fluoro + ABC tracking from 80 kVp ¹	Med. Detail	Normal (30.5 cm)	80	0.6	1.245 R min ⁻¹
		Mag 1 (22.9 cm)	80	1.3	2.485 R min ⁻¹
		Mag 2 (15.2 cm)	80	2.7	4.925 R min ⁻¹
		Mag 3 (11.4 cm)	85	3.5	7.005 R min ⁻¹
Continuous fluoro + ABC ²	Normal	Normal (22.9 cm)	69	2.1	1.30 R min ⁻¹
		Mag 1 (15.2 cm)	71	2.9	1.86 R min ⁻¹
		Mag 2 (10.2 cm)	70	3.7	2.31 R min ⁻¹
Pulse fluoro (4 Hz) + ABC ²	Normal	Normal (22.9 cm)	69	2.1	0.26 R min ⁻¹
		Mag 1 (15.2 cm)	70	2.9	0.35 R min ⁻¹
		Mag 2 (10.2 cm)	70	3.8	0.46 R min ⁻¹
Pulse fluoro (4 Hz) + ABC ²	Low	Normal (22.9 cm)	72	0.6	0.04 R min ⁻¹
		Mag 1 (15.2 cm)	77	0.7	0.05 R min ⁻¹
		Mag 2 (10.2 cm)	81	0.7	0.06 R min ⁻¹
Cine, Adult Coronary ³ (30 fr s ⁻¹ and 4 msec fr ⁻¹)	Normal	Normal (23.0 cm)	58	500	17.6 mR frame ⁻¹ (~ 32 R min ⁻¹)

¹1996 Naval Medical Center, San Diego; G.E. Advantx RF room with mechanical & digital spot film.²1995 Naval Medical Center, San Diego; OEC 9600 with surgical and pulse fluoro packages.³1995 Naval Medical Center, San Diego; Phillips Integris H3000 single plane cardiac catheterization lab.